

Compliance Guide for the Concentrated Aquatic Animal Production Point Source Category

Appendix H: National Association of State Aquaculture Coordinators (NASAC), Cooperative Extension Services, and Sea Grant Information

Full document available at http://www.epa.gov/waterscience/guide/aquaculture

Engineering and Analysis Division Office of Science and Technology U.S. Environmental Protection Agency

National Association of State Aquaculture Coordinators (NASAC), Cooperative Extension Services, and Sea Grant Information

Since this guidance document was completed, contacts for NASAC, Cooperative Extension Services and Sea Grant Programs may have been updated. If any of the links do not work, please visit the following websites for updated contacts:

NASAC

http://www.marylandseafood.org/aquaculture/nasac.php

Cooperative Extension

http://www.csrees.usda.gov/qlinks/partners/state partners.html

Sea Grant

http://www.nsgo.seagrant.org

ALABAMA

NASAC

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Cooperative Extension

The Department of Fisheries and Allied Aquaculture is responsible for extension activities in aquaculture production and marketing, managing fish populations in large and small impoundments, aquatic ecology, and recreational fisheries. Department experts work with county extension agents throughout the state to conduct educational programs and provide up-to-date, practical information to interested clients. More information about the Department is available at:

http://www.ag.auburn.edu/dept/faa/extension

Sea Grant

Mississippi-Alabama Sea Grant Consortium (MASGC) is an organization of nine universities and laboratories dedicated to activities that foster the conservation and sustainable development of coastal and marine resources in Mississippi and Alabama. Additional information about MASGC is available at:

http://www.masgc.org

ALASKA

NASAC

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Cynthia Pring-Ham Alaska Department of Fish and Game P O Box 25526 Juneau AK 99802-5526 (907)465-6150 (907)465-4168 FAX cynthia pring-ham@fishgame.state.ak.us

Cooperative Extension

The University of Alaska Fairbanks Cooperative Extension has had aquaculturerelated initiatives through its 4-H programs. Information about University of Alaska-Fairbanks Cooperative Extension efforts can be found at:

http://www.uaf.edu/coop-ext

Sea Grant

The Marine Advisory Program (MAP) works to promote positive development, use and conservation of Alaska's aquatic and marine resources. The Aquaculture section of the MAP attempts to promote the aquaculture industry in Alaska through improvement of species diversity, production, quality, management, marketing opportunities, and public awareness of the industry. More information about the Marine Advisory Program can be obtained at:

http://www.uaf.edu/map/about.html

AMERICAN SAMOA

NASAC

Ta'alo P. Lauofo Department of Agriculture Pago Pago, American Samoa 96799

Cooperative Extension

American Samoa Community College's Cooperative Extension Service offers community-based educational programs and projects to enhance individual and group decision-making towards improved living. Extension works closely with farmers, homemakers and youth, as well as government and civic agencies. The extension agents use discoveries made by the research division to improve the quality of life for individuals and the community.

Extension programs are offered in agriculture, consumer family sciences, 4-H youth, and forestry. No specific information concerning aquaculture for the state's cooperative extension service was found. Specific information about the cooperative extension service is available at:

http://www.ascc.as/academicssupportcnrp.htm

Sea Grant

American Samoa Community College does have a Sea Grant Program. However, no information or website was available

ARIZONA

NASAC

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Cooperative Extension

The University of Arizona Cooperative Extension Service acts as a conduit for information on aquaculture issues. Information available at this website includes links to publications, educational activities including the high school aquaculture program, and other resources within the State. Additional information about University of Arizona Aquaculture is available at:

http://ag.arizona.edu/azaqua

Sea Grant

There is no Sea Grant Program for the State of Arizona.

ARKANSAS

NASAC

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Cooperative Extension

The Aquaculture/Fisheries Center at the University of Arkansas Pine Bluff hosts information on Extension activities. The Center provides educational materials such as newsletters, videos, demonstrations and training. Some specialized programs have included publication of the quarterly newsletter "Aquaculture Aquafarming," and development of Spanish-English training curriculum and training. The goal of the Center is to provide relevant, timely information through research and extension programs. Further information about the Aquaculture/ Fisheries Center can be obtained at:

http://www.uaex.edu/aqfi

Sea Grant

Arkansas does not have a Sea Grant Program.

CALIFORNIA

NASAC

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Cooperative Extension

The University of California, Davis Animal Science Extension is linked to about 30 county-based Cooperative Extension livestock and dairy farm advisors. The campus-based specialists are responsible for the program areas of waste management, livestock systems management, aquaculture, and dairy management and health. The Animal Science Extension provides Aquaculture Document Database, an online source for documents related to Aquaculture both in California and throughout the United States. Information about the Animal Science Extension is available at:

http://animalscience.ucdavis.edu/extension/Aquaculture.htm

Sea Grant

The California Sea Grant College program focuses its work on aquaculture issues of research and development. Abstracts of research documents pertaining to this subject are available online. The Southern California Sea Grant has identified aquaculture as a research need and places development of aquaculture as a topic under the "Urban Coasts" theme. More information about the California Sea Grant College program's aquaculture research is available at:

http://www-csgc.ucsd.edu/RESEARCH/SgResearchIndx.html

Information about the Southern California Sea Grant can be found at:

http://www-csgc.ucsd.edu

COLORADO

NASAC

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Cooperative Extension

The Colorado State University Extension has one aquaculture expert within the faculty of the College of Natural Resources, who has expertise about both sport fishing pond management and fish farming. More information about the Colorado State University Extension can be found at:

http://www.ext.colostate.edu

Sea Grant

Colorado does not have a Sea Grant Program.

CONNECTICUT

NASAC

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Cooperative Extension

The University of Connecticut Cooperative Extension seeks to strengthen profitability and to increase agriculture as a major sector in the State economy. Work is done in a variety of areas, including aquaculture, to update production and improve management skills. Additional information about the

University of Connecticut Cooperative Extension is located at:

http://www.canr.uconn.edu/ces

Sea Grant

Connecticut Sea Grant seeks to create possibilities within the State for new jobs through sustainable, environmentally friendly intensive aquaculture. The Sea Grant promotes research projects to further this end. Additional information about Connecticut Sea Grant College's aquaculture initiatives can be found at:

http://www.seagrant.uconn.edu/aqua.htm

DELAWARE

NASAC

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Cooperative Extension

The University of Delaware Cooperative Extension provides local communities with information on agricultural issues, financial tools, and other community educational materials. No information concerning aquaculture for the state's cooperative extension service was available for Delaware. Complete information about the University of Delaware Cooperative Extension can be found at:

http://ag.udel.edu/extension

Sea Grant

The University of Delaware Sea Grant
Marine Advisory Service acts as a source of
information-sharing among researchers,
resource managers, business people and
private citizens in an effort to foster the wise
use, conservation, and development of
marine resources. More information about
the University of Delaware Sea Grant
Marine Advisory Service's programs in
aquaculture is available at:

http://www.ocean.udel.edu/mas/aquaculture/aquaculture.html

FLORIDA

NASAC

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http://www.FloridaAquaculture.com

Cooperative Extension

The Institute of Food and Agricultural Sciences serves as the coordinating body for Extension Service activities and information. The Extension Service is a partnership of county, state, and federal government, which serves the citizens of Florida by providing information and training on a wide variety of topics. This site provides contact information for experts specializing in fisheries, aquaculture and pond management, and also has links to relevant publications. More information about extension activities of the Institute of Food and Agricultural Sciences is available at:

http://fishweb.ifas.ufl.edu/ExtensFac.htm

Sea Grant

Florida Sea Grant College efforts in aquaculture seek to promote sustainable production of aquatic species through education and research. Further details of Florida Sea Grant College efforts can be found at:

http://www.flseagrant.org

GEORGIA

NASAC

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Cooperative Extension

The Warnell School of Forest Resources serves as the conduit for information about forestry, fisheries, wildlife and conservation for the State of Georgia. One goal of the Warnell School is to provide information to the citizens of Georgia and the US so that they might be able to reach informed decisions about personal objectives and societal issues involving forestry and forest products, wildlife, aquaculture and fisheries and related natural resources. Aspects of these efforts include: education through technology transfer, translation and synthesis of research results and other information, discussion and explanation of public policy issues and science-based evaluations and recommendations. Further information about the Warnell School of Forest Resources can be found at:

http://www.forestry.uga.edu

Sea Grant

The University of Georgia Sea Grant College collaborates with the University of Georgia Marine Extension Service to provide information about current research in aquaculture. Additional information about the Georgia Sea Grant College is available at:

http://www.marsci.uga.edu/gaseagrant

GUAM

NASAC

Jeff Tellock Guam Department of Commerce Guam Aquaculture Development & Training 102 M Street Tiyan GU 96913 (671)734-3011/7327 (671)477-9031 FAX

Cooperative Extension

The University of Guam's Cooperative Extension Service focuses on agriculture and natural resources. No specific information related to aquaculture from the state's Cooperative Extension Service was found. Additional information about the Service is available at:

http://www.uog.edu/cals/site/extension.html

Sea Grant

The mission of the University of Guam's Sea Grant Program is to optimize the sustainable use of the ocean's resources, to protect the delicate ecosystems that exist and to prevent any hazards and degradation of the natural resources through research, education, and advisory support; to increase our understanding of the balance of sustainability and protection of the environment that exist within the Western Pacific region; and to make significant

contributions for the benefit of Guam, the Western Pacific, and the Nation. No website was available for the University of Guam's Sea Grant Program.

HAWAII

NASAC

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Cooperative Extension

The University of Hawai'i Center of
Tropical Agriculture and Human Resources
conducts research and provides the public
with information on a variety of topics
including community development,
environmental issues, and commercial
production. Aquaculture is listed as one area
of focus, but further details of programs and
research were not found on the website.
More information about the University of
Hawai'i Center of Tropical Agriculture and
Human Resources is located at:

http://www.ctahr.hawaii.edu/ctahr2001/Extension/ExtMain.html

Sea Grant

Promotion of sustainable aquaculture is one research goal of the Sea Grant in Hawaii. More information about the University of Hawaii Sea Grant is available at:

http://www.soest.hawaii.edu/SEAGRANT

IDAHO

NASAC

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Cooperative Extension

The Aquaculture Research Institute provides students with educational and research opportunities relating to aquaculture and serves as an active educational outreach program within the state of Idaho. The Institute promotes, supports, and coordinates aquaculture research activities at the University of Idaho and throughout the state. Additional information about the Institute can be found at:

http://www.webs.uidaho.edu/aquaculture

Sea Grant

Idaho does not have a Sea Grant program.

ILLINOIS

NASAC

Ms. Delayne Holsapple Reeves Department of Agriculture State Fairgrounds PO Box 19281 Springfield IL 62794-9281 (217)524-9129 (217)524-5960 FAX dreeves@agr.state.il.us

Cooperative Extension

No specific information related to aquaculture from the state's Cooperative Extension Service was found. Complete information about the Illinois Cooperative Extension is available at:

http://www.extension.uiuc.edu

Sea Grant

The Illinois-Indiana Sea Grant College initiatives in aquaculture focus on the promotion and profitability of the industry in the two states. Outreach efforts include education, training, and promotion of research. Additional information about the Illinois-Indiana Sea Grant College can be found at:

http://www.iisgcp.org

INDIANA

NASAC

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Cooperative Extension

No specific information related to aquaculture from the state's Cooperative Extension Service was found. Further information about the Purdue Extension can be found at:

http://www.ces.purdue.edu

Sea Grant

The Illinois-Indiana Sea Grant College initiatives in aquaculture focus on the promotion and profitability of the industry in the two states. Outreach efforts include education, training, and promotion of research. Additional information about the

Illinois-Indiana Sea Grant College can be found at:

http://www.iisgcp.org

IOWA

NASAC

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Cooperative Extension

Iowa State University (ISU) Extension to Agricultural and Natural Resources provides information through its research and specialists about many topics including aquaculture. Links related to aquaculture include information about research initiatives and facilities and details about other organization and consortiums in the State or within the region. More information about ISU Extension to Agricultural and Natural Resources is available at:

http://www.extension.iastate.edu/ag/topics.html

Sea Grant

Iowa does not have a Sea Grant Program.

KANSAS

NASAC

Troy Amspacker Kansas Department of Wildlife & Parks Milford Fish Hatchery 3100 Hatchery Drive Junction City KS 66411 (785)238 2638 (785)238-1369 FAX troya@wp.state.ks.us

Cooperative Extension

K-State research provides information about aquaculture through its research specialists and publications. The K-State Extension lists aquaculture resources under their topic of farm ponds. The website has links to regional resources on aquaculture. Additional information about K-State research can be found at:

http://www.oznet.ksu.edu/root/coreResources.htm

Specific information about K-State Aquaculture is located at:

http://www.oznet.ksu.edu/neao/aquaculture.htm

Sea Grant

Kansas does not have a Sea Grant Program.

KENTUCKY

NASAC

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Cooperative Extension

The Cooperative Extension at the University of Kentucky makes available information relevant to aquaculture activities in the State. This information includes new reports of aquaculture projects in the State; details of events in different counties (e.g., shrimp farming events; and access to specialists. The Kentucky State University Aquaculture Program aids the extension through its research and specialists. Complete information about the Cooperative

Extension Service is located at:

http://www.ca.uky.edu/ces/index.htm

Further details of the Kentucky State University Aquaculture Program can be found at

http://www.ksuaquaculture.org

Sea Grant

Kentucky does not have a Sea Grant Program.

LOUISIANA

NASAC

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Cooperative Extension

The LSU AgCenter provides information about Cooperative Extension activities in Louisiana. Research and publications about aquaculture in Louisiana are available through the Center's website. Additional information about the LSU AgCenter is available at:

http://www.lsuagcenter.com

Sea Grant

The Louisiana Sea Grant, a participant in a 30-institution partnership, promotes responsible stewardship of marine and coastal resources through its program efforts. The Louisiana Sea Grant Program does not have a specific focus in aquaculture. Further information about the

Louisiana Sea Grant College can be obtained at:

http://www.laseagrant.org

MAINE

NASAC

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Cooperative Extension

The University of Maine Marine Extension Team is a cooperative effort between the University of Maine Cooperative Extension and the Maine Sea Grant College. The Marine Extension Team focuses on many aspects of aquaculture. The University of Maine Cooperative Extension can be accessed at:

http://www.umext.maine.edu

Sea Grant

The Maine Sea Grant College seeks to be a leader in marine science and education through its research and programming. A number of aquaculture programs continue to receive attention from the Maine Sea Grant. The Maine Sea Grant also cooperates with the Maine Marine Extension Team to conduct research and information sharing. Information about the Maine Sea Grant is located at:

http://www.seagrant.umaine.edu

MARYLAND

NASAC

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Cooperative Extension

The University of Maryland Cooperative Extension Service does not focus specifically on aquaculture but does provide a wide range of information on other issues in resource management. Further information about the Cooperative Extension can be found at:

http://www.agnr.umd.edu/MCE/index.cfm

Sea Grant

The Maryland Sea Grant College focuses on marine research and education, with a concentration on the Chesapeake Bay, including aquaculture. Specialists at the Maryland Sea Grant Program are working to evaluate the economic efficiency of commercial finfish and shellfish aquaculture. Through Aquaculture Action, a teaching program, Sea Grant hosts workshops for educators to create a network of "aquaculture educators." Additional details about the Maryland Sea Grant Program can be found at:

http://www.mdsg.umd.edu/index.html

MASSACHUSETTS

NASAC

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http://www.mass.gov/dfa/aguaculture

Cooperative Extension

The UMass Extension Service Division of Fish, Wildlife, and Biodiversity Conservation provides a variety of outreach and research and training efforts related to marine aquaculture. Further information about the UMass Extension is available at:

http://www.umass.edu/nrec

Sea Grant

WHOI Sea Grant provides an academic and research environment for addressing the revitalization of national fisheries and the development of sustainable aquaculture. The MIT Sea Grant provides educational resources on aquaculture through its K-12 curriculum at the finfish hatchery. WHOI Sea Grant information is located at:

http://www.whoi.edu/seagrant

Information on the MIT Sea Grant can be found at:

http://web.mit.edu/seagrant

MICHIGAN

NASAC

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Cooperative Extension

The Michigan State University Extension has links to research publication focused on aquaculture in the State and throughout the Nation. Complete details of extension programs can be found at:

http://www.msue.msu.edu/portal

Sea Grant

The Michigan Sea Grant promotes protection and sustainable use of the aquatic environment in the Great Lakes region. Aquaculture is a major initiative of the Sea Grant members in this region. Further information about the Michigan Sea Grant and its fisheries program can be found at:

http://www.miseagrant.umich.edu

MINNESOTA

NASAC

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Cooperative Extension

The University of Minnesota Extension Service serves as a link between Minnesota communities and the university. No specific information related to aquaculture for the state's Cooperative Extension Service was found. Further information about the University of Minnesota Extension Service and publications about aquaculture can be found at:

http://www.extension.umn.edu

Sea Grant

Minnesota Sea Grant uses research and public education to further the state's coastal environment and economy. Sea Grant acts as a conduit for information among user groups, including industry, management agencies, and research scientists.

Aquaculture is a major outreach topic, and information is available on beginning fish farming operations and aquaculture business structure. Additional information about Minnesota Sea Grant is available at:

http://www.seagrant.umn.edu/index.html

Aquaculture outreach information can be found at:

http://www.seagrant.umn.edu/aqua/index.html

MISSISSIPPI

NASAC

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Cooperative Extension

MSUcares (Coordinated Access to the Research and Extension System) is a joint effort between the Mississippi State University Extension Service and the Mississippi Agricultural and Forestry Experiment Station (MAFES). MSUcares provides information about aquaculture for residents of the state. More information about MSUcares is available at:

http://msucares.com

Sea Grant

The Mississippi-Alabama Sea Grant Consortium (MASGC) is an organization of nine universities and laboratories dedicated to activities that foster the conservation and sustainable development of coastal and marine resources in Mississippi and Alabama. Additional information about MASGC is available at:

http://www.masgc.org

MISSOURI

NASAC

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Cooperative Extension

The Missouri Watershed Information Network's Aquaculture Center provides links to information pertaining to aquaculture in Missouri. Additional information about the Aquaculture Center can be found at:

http://outreach.missouri.edu/mowin/Training/aquaculture.html

Sea Grant

Missouri does not have a Sea Grant Program.

MONTANA

NASAC

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http://agr.state.mt.us/dept/agDevDiv.asp

Cooperative Extension

The Montana Cooperation Extension program is an educational resource with the aim of providing research-based knowledge to strengthen the social, economic and environmental well being of individuals, communities, and agricultural enterprises. This extension service does not have a particular focus on aquaculture. Further details of the Montana Cooperation Extension program can be found at:

http://extn.msu.montana.edu

Sea Grant

Montana does not have a Sea Grant Program.

NEBRASKA

NASAC

Ag Promotion and Development Department of Agriculture PO Box 94947 Lincoln NE 68509-4947 (402)471-4876 (402)471-2759 FAX agprom@agr.state.ne.us

Cooperative Extension

The University of Nebraska Lincoln Cooperative Extension Service provides public information about current research efforts, offers training, and seeks to maintain educational resources about a variety of topics. Publications related to aquaculture are available at this site. More information about the University of Nebraska Lincoln Extension Service is located at:

http://www.extension.unl.edu

Publications may be searched at:

http://www.ianr.unl.edu/pubs

Sea Grant

Nebraska does not have a Sea Grant Program.

NEVADA

NASAC

No Program

Cooperative Extension

The University of Nevada Cooperative Extension provides local citizens with information for improving their lives and local surroundings. No specific information related to aquaculture for the state's Cooperative Extension Service was found. Additional information about the University of Nevada Cooperative Extension is available at:

http://www.unce.unr.edu

Sea Grant

Nevada does not have a Sea Grant Program.

NEW HAMPSHIRE

NASAC

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Cooperative Extension

UNH Aquaculture extension programs have the goals of assisting both potential and existing aquaculture operations with all aspects of the business including: species identification, broodstock care, nutrition, disease, systems design, marketing, permitting and business plans. Extension staff work closely with the aquaculture research community to highlight the most recent industry technologies. Further information of UNH Fisheries/Aquaculture programs is available at:

http://www.ceinfo.unh.edu

Sea Grant

The New Hampshire Sea Grant promotes research and education about aquatic resources. Sea Grant aquaculture extension programs are designed to aid potential and existing aquaculture operations in areas such as site and species evaluation, culture techniques, nutrition, health management, systems design, marketing, permitting, and business plans for a full range of finfish, shellfish, and seaweed operations. Complete information about the New Hampshire Sea Grant is available at:

http://www.seagrant.unh.edu/index.html

NEW JERSEY

NASAC

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Cooperative Extension

The Rutgers Cooperative Extension aquaculture programs are focused on providing information about seafood productions in the state of New Jersey. Further details of the Rutgers Cooperative Extension program can be found at:

http://www.rce.rutgers.edu

Sea Grant

The New Jersey Sea Grant College, a part of the New Jersey Marine Sciences Consortium, provides training, research and educational materials focused on the marine environment in New Jersey. This Sea Grant has no specific programs in aquaculture. Further details of the New Jersey Sea Grant College are located at:

http://www.njmsc.org/Sea_Grant/About_SeaGrant.htm

NEW MEXICO

NASAC

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Cooperative Extension

The Cooperative Extension at New Mexico State University provides educational outreach to New Mexico's citizens. Although no current programs in aquaculture exist, publications on this topic can be found at this website. Further information from New Mexico State University's Extension Service can be found at:

http://www.cahe.nmsu.edu/ces

Sea Grant

New Mexico does not have a Sea Grant program.

NEW YORK

NASAC

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pxhulber@gw.dec.state.ny.us

Cooperative Extension

The Cornell Cooperative Extension
Programs in Fish and Wildlife Biology
provide information specific to fisheries
management. Details of aquaculture
programs are on a case-by-case basis. An
example of a county-based aquaculture
program is Suffolk County. Through its
research and educational and training
programs, the Suffolk County office of the
Cooperative Extension seeks to improve the
quality of aquaculture in this county of New
York. More information about Cornell
Cooperative Extension Programs can be
found at:

http://www.dnr.cornell.edu/EXT/ext/fish&wildli fe.htm Suffolk Country information is available at:

http://www.cce.cornell.edu/counties/Suffolk/MA Rprograms/Aquaculturemain.htm

Sea Grant

The New York Sea Grant conducts research on a variety of topics related to marine ecosystems. Information about aquaculture and the New York Sea Grant was not available. Additional information about New York's Sea Grant program is available at:

http://www.seagrant.sunysb.edu

NORTH CAROLINA

NASAC

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http://www.agr.state.nc.us/aquacult

Cooperative Extension

North Carolina State University (NCSU) North Carolina Agricultural and Technical State University (NC AT&T) Cooperative Extension provides information about ponds and aquaculture. NCSU/NC A&T Cooperative Extension is located at:

http://www.ces.ncsu.edu/copubs/ag/aqua

Sea Grant

The North Carolina Sea Grant College program directs research and information sharing about issues in coastal and marine resources. Aquaculture is one of the theme areas for the NC Sea Grant. The North

Carolina Sea Grant College Program can be accessed at:

http://www.ncsu.edu/seagrant

NORTH DAKOTA

NASAC

No Aquaculture Program

Cooperative Extension

The North Dakota State University (NDSU) Extension Service offers its citizens information and other educational resources. Aquaculture has become a topic of focus at the Carrington Research Extension, where economic development is the goal. Reports of the aquaculture program at the Carrington Research Extension are available at its website. Additional information about the NDSU Extension can be found at:

http://www.ext.nodak.edu

The Carrington Research Extension can be found at:

http://www.ag.ndsu.nodak.edu/carringt

Sea Grant

North Dakota does not have a Sea Grant Program.

OHIO

NASAC

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Cooperative Extension

Providing aquaculture practitioners with information on topics such as fish culture methods, nutritional requirements, aquacultural system design and management, species selection and water quality management. Further information about the Ohio State Extension Aquaculture Program is available at:

http://piketon.osu.edu/aqua

Sea Grant

As a part of the Lake Erie Programs, the Ohio Sea Grant College offers publications and research initiatives focused on many topics in aquaculture. Additional information about the Ohio Sea Grant program can be found at:

http://www.sg.ohio-state.edu

OKLAHOMA

NASAC

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Cooperative Extension

Oklahoma State University (OSU)
Cooperative Extension's publications
database, has links to a wide range of
aquaculture documents. The Extension's
Water Quality Team maintains a group of
experts in the field of aquaculture and pond
maintenance. Specifically, the OSU
Extension's Southern District and expert
Marley Beem maintain a site dedicated to
aquaculture education.

Publications, contact information, and aquaculture resources from the Southern District are found at:

http://osuextra.okstate.edu, http://biosystems.okstate.edu/waterquality/wqteam.htm, and http://dasnr.okstate.edu/oces/sedistrict, respectively.

Sea Grant

Oklahoma does not have a Sea Grant Program.

OREGON

NASAC

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Cooperative Extension

No information concerning aquaculture for the state's cooperative extension service was available for Oregon. Additional information about Oregon State University's Extension Service can be found at:

http://extension.oregonstate.edu/index.php

Sea Grant

Research of the Oregon Sea Grant College is focused on promotion and sustainability of aquatic resources in the Northeast. Research in sustainable aquaculture is one initiative of this Sea Grant program. Complete information about the Oregon Sea Grant College can be obtained at:

http://seagrant.orst.edu

PENNSYLVANIA

NASAC

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Cooperative Extension

No information concerning aquaculture for the state's Cooperative Extension Service was available for Pennsylvania.

Sea Grant

The Pennsylvania Sea Grant has programs dedicated to promoting research in aquaculture in the Lake Erie region. Further details of Pennsylvania Sea Grant programs can be found at:

http://www.pserie.psu.edu/seagrant/seagindex.htm

PUERTO RICO

NASAC

Jaime Gonzalez Azar Fisheries Development Program Department of Agriculture PO Box 10163 San Juan PR 00908-1163 (809)724-4911 (787)725-7884 FAX

Cooperative Extension

Although the University of Puerto Rico has an Agricultural Extension Service, no specific information related to aquaculture was found. A current website was also unavailable.

Sea Grant

The University of Puerto Rico Sea Grant College Program is an educational program devoted to the conservation and sustainable use of coastal and marine resources in Puerto Rico, the U.S. Virgin Islands and the Caribbean region. Their mission is two-fold: to conduct scientific research in the areas of water quality, fisheries and mariculture, seafood safety, marine recreation and coastal tourism, coastal hazards and coastal communities economic development; and to apply their scientific knowledge to solve a variety of problems that communities face every day. For over two decades the University of Puerto Rico Sea Grant College Program has been working to promote sustainable development and the wise use of marine resources in Latin America and the Caribbean region. Complete information about the University of Puerto Rico Sea Grant College Program is available at:

http://seagrant.uprm.edu

RHODE ISLAND

NASAC

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Cooperative Extension

The Rhode Island Cooperative Extension program in Aquaculture Biotechnology and Fishing seeks to increase local aquaculture through economically- and environmentally-beneficial technologies systems. The Rhode Island Cooperative Extension program in Aquaculture Biotechnology and Fishing website is:

http://www.uri.edu/ce/aquaculture.html

Sea Grant

The Rhode Island Sea Grant Sustainable
Fisheries Extension Program seeks to
revitalize and stabilize the Nation's
Fisheries through applied research, outreach,
and education. The program provides a link
between researchers, commercial and
recreational fishermen, and regulators by
bringing scientific and technical information
to user groups, and in turn informing
researchers of user needs and priorities.
Fisheries Extension deals with capture
fisheries, aquaculture, and seafood safety
and quality. Information about the Rhode
Island Sea Grant can be found at:

http://seagrant.gso.uri.edu

SOUTH CAROLINA

NASAC

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Cooperative Extension

Clemson's Aquacultural Water Resources website provides links to a variety of

information sources including publications, meetings, contacts, and research. Links to Clemson Aquacultural Water Resources can be found at:

http://www.clemson.edu/waterquality/waterres/agwr.htm

Sea Grant

The South Carolina Sea Grant Consortium provides a program of research, education, extension, and training to increase economic opportunities and conservation of coastal and marine resources for citizens of South Carolina. Complete information about the SC Sea Grant Consortium can be found at:

http://www.scseagrant.org

SOUTH DAKOTA

NASAC

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Dennis Unkenholz South Dakota Department of Game, Fish and Parks 521 E Capitol Pierre SD 57501 (605)773-4508 (605)773-6245 FAX dennis.unkenholz@state.sd.us

Cooperative Extension

South Dakota State University's Extension Service is the primary outreach facility of the University. It serves the people of South Dakota by helping them apply scientific knowledge to improve their lives. No information on aquaculture-related programs is available for this Extension. Additional information about South Dakota State University's Cooperative Extension is located at:

http://sdces.sdstate.edu

Sea Grant

There is no Sea Grant Program for the State of South Dakota.

TENNESSEE

NASAC

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Cooperative Extension

The Center for Profitable Agriculture is a partnership between the Tennessee Farm Bureau and the University of Tennessee Institute of Agriculture. The Center provides information about the development of the aquaculture industry in Tennessee. Further information about aquaculture initiatives from the Center for Profitable Agriculture can be found on the University of Tennessee Extension's web site at:

http://www.utextension.utk.edu/departments

Sea Grant

There is no Sea Grant Program in Tennessee.

TEXAS

NASAC

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Bob Blumberg General Land Office 1700 N Congress Avenue SFA Building Room 710 Austin TX 78701-1495 (512)463-5028 (512)463-5098 FAX

Cooperative Extension

The Texas A&M Cooperative Extension offers practical, educational information as a result of university research. No specific information related to aquaculture from the state's Cooperative Extension Service was found. Texas A&M Cooperative Extension information can be found at:

http://texasextension.tamu.edu

Sea Grant

Texas Sea Grant provides outreach through two efforts: the Marine Advisory Service (MAS) and the Marine Information Service (MIS). The Texas Sea Grant has specialists who deal with issues including aquaculture, fisheries, environmental quality, marine business management, marine education, and seafood science, technology and marine policy. Further information about the Texas Sea Grant College Program can be found at:

http://texas-sea-grant.tamu.edu

UTAH

NASAC

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Cooperative Extension

No specific information related to aquaculture from the state's Cooperative Extension Service was found. Further information about initiatives from the Utah State University Extension Service is located at:

http://extension.usu.edu

Sea Grant

Utah does not have a Sea Grant Program.

VERMONT

NASAC

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Cooperative Extension

The University of Vermont's Extension seeks to help build vital, sustainable rural communities and families through educational programs. Additional information about the University of Vermont Extension is available at:

http://www.uvm.edu/extension

Sea Grant

The Lake Champlain Sea Grant Program provides a variety of scientific research and activities that lead to improved understanding, use, and management of the Lake Champlain ecosystem. Information about aquaculture through the Lake Champlain Sea Grant was not found. Additional information about the Lake Champlain Sea Grant is available at:

http://www.uvm.edu/~seagrant

VIRGINIA

NASAC

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Cooperative Extension

The Southwest Virginia Aquaculture Research and Extension Center seeks to aid the public with sustainable recirculating aquaculture and high value alternative horticulture opportunities in southwest Virginia through research, extension, and education programs. More information from the Southwest Virginia Aquaculture Research and Extension Center is located at:

http://www.vaes.vt.edu/saltville

Sea Grant

The Virginia Sea Grant Program is a consortium of research organizations that focuses on protection and use of marine and freshwater resources in the State.

Development of sustainable aquaculture is a key research initiative from this program.

More information about the Virginia Sea Grant is available at:

http://www.virginia.edu/virginia-sea-grant

VIRGIN ISLANDS

NASAC

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Cooperative Extension

The University of the Virgin Islands (UVI) Cooperative Extension Service, Agricultural Experiment Station (AES) is located on the St. Croix Campus of the University of the Virgin Islands. AES is part of the Research and Public Service Component.

AES conducts basic and applied research to meet the needs of the local agricultural community in increasing production, improving efficiency, developing new enterprises, preserving and propagating germplasm unique to the Virgin Islands, and protecting the natural resource base. AES has a research program for aquaculture.

Information about the UVI Cooperative Extension Service is available at:

http://rps.uvi.edu/CES

Additional information about AES is available at:

http://rps.uvi.edu/AES/aes home.html

Sea Grant

The Virgin Islands Marine Advisory Service (VIMAS), a part of the University of Puerto

Rico Sea Grant College Program, is located within the Center for Marine and Environmental Studies (CMES) at UVI. VIMAS was established on the St. Thomas campus of UVI in 1984 and later expanded to include agents on St. Croix. No specific information related to aquaculture for the Virgin Islands' Cooperative Extension Service was found. Additional information about VIMAS is available at:

http://rps.uvi.edu/VIMAS

WASHINGTON

NASAC

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Cooperative Extension

Washington State University Cooperative Extension offers non-credit education and degree opportunities to people throughout the state. Cooperative Extension builds the capacity of individuals, organizations, businesses and communities, empowering them to find solutions for local issues and to improve their quality of life. WSU Cooperative Extension offers some aquaculture publications at:

http://pubs.wsu.edu/cgi-bin/pubs/index.html

Additional information about the WSU Cooperative Extension is available at:

http://ext.wsu.edu

Sea Grant

Washington Sea Grant Program brings researchers, regulatory agencies and industry together to keep Washington-raised aquatic species available for sale as food products. Through research, education, and information sharing, Washington State aquaculture continues to be productive. Further information about the Washington Sea Grant Program can be found at:

http://www.wsg.washington.edu

WEST VIRGINIA

NASAC

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Cooperative Extension

The WVU Extension Service has established a website dedicated to promoting education, technical support, and cooperative resources related to the aquaculture industry.

Additional resources from the WVU Extension Service are available at:

http://www.wvu.edu/~agexten/aquaculture

Sea Grant

West Virginia does not have a Sea Grant Program.

WISCONSIN

NASAC

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Cooperative Extension

Through its programming and collaborative relationships with the UW universities and colleges, the 72 Wisconsin counties, and countless local, state, and federal agencies and groups, Extension provides a spectrum of lifelong learning opportunities for Wisconsin citizens. Extension education applies university research, knowledge and resources to the needs of Wisconsin citizens. Aquaculture is a topic of interest for the Wisconsin Extension. Further information about University of Wisconsin's Extension can be found at:

http://www.uwex.edu

Sea Grant

The Wisconsin Sea Grant provides information on research and publications pertaining to aquaculture. Through these efforts as well as initiatives in technology transfer and outreach, Wisconsin Sea Grant acts to promote sustainable use of aquatic resources in the Great Lakes and the Oceans. Additional information about Wisconsin's Sea Grant Programs can be found at:

http://www.seagrant.wisc.edu/index.asp

WYOMING

NASAC

Wyoming Business Council Division of Agriculture and Timber 2219 Carey Avenue Cheyenne WY 82002-0100 (307)777-6577 (307)777-6593 FAX wda@state.wy.us

Cooperative Extension

The University of Wyoming Cooperative Extension offers access to information and research on a variety of topics related to community life in the State. Additional information about aquaculture through this Extension was not found. The University's Extension can be accessed at:

http://uwadmnweb.uwyo.edu/UWces

Sea Grant

Wyoming does not have a Sea Grant Program.